

CLAIMS

1. A sunshade system for a motor vehicle, comprising:
first and second guide rails;
a front crossbar and a rear crossbar that extend between the first and second guide rails and are guided in the first and second guide rails; and
a flexible sunshade that is fastened to the front and rear crossbars, wherein the sunshade is guided between the first and second guide rails.
2. The sunshade system as claimed in claim 1, wherein the first and second guide rails extend in an inclined relationship with respect to each other.
3. The sunshade system as claimed in claim 1, wherein the sunshade is elastic at substantially right angles to a shifting direction dictated by the first and second guide rails.
4. The sunshade system as claimed in claim 2, wherein the sunshade is entirely made of an elastic material.
5. The sunshade system as claimed in claim 2, wherein a first portion of the sunshade is made of an elastic material and a second portion of the sunshade is made of a non-elastic material.
6. The sunshade system as claimed in claim 1, wherein at least one of the first crossbar and the rear crossbar is a telescopic member.
7. The sunshade system as claimed in claim 6, wherein at least one of the front crossbar and the rear crossbar has first and second laterally protruding guide arms that are received in said at least one crossbar for sliding movement therein, wherein the first guide arm is received in the first guide rail and the second guide arm is received in the second guide rail.

8. The sunshade system as claimed in claim 7, wherein the first and second guide arms are mechanically coupled to each other and to at least one of the front crossbar and the rear crossbar so that said at least one crossbar is centered in a middle area between the first and second guide rails.

9. The sunshade system as claimed in claim 8, further comprising a centering gear that centers the front and rear crossbars in the middle area, wherein the centering gear is rotatably fitted to the crossbar and engages the crossbar by first and second tooth racks disposed on the first and second guide arms, respectively.

10. The sunshade system as claimed in claim 1, further comprising first and second sliders fitted in at least one of the front crossbar and rear crossbar and received in the first and second guide rails, respectively, for sliding movement therein.

11. The sunshade system as claimed in claim 1, further comprising a handle that is fitted to the front crossbar to allow manual adjustment of the sunshade.

12. The sunshade system as claimed in claim 1, further comprising a sun visor that is fitted to the front crossbar such that it can be folded downward.

13. The sunshade system as claimed in claim 1, further comprising a spacer that engages the front and rear crossbars to keep them at a constant distance from each other.

14. The sunshade system as claimed in claim 13, wherein the spacer is at least one push-pull cable.

15. The sunshade system as claimed in claim 14, wherein the first guide rail has a first cable disposed therein and the second guide rail has a second cable disposed therein, the first and second cables acting as the spacer, wherein the first and second cables are coupled with each other such that ends of the first and second cables associated with the front and rear crossbars can only be shifted jointly and in parallel.

16. The sunshade system as claimed in claim 15, further comprising a coupling gear that cooperates with the first and second cables.

17. The sunshade system as claimed in claim 16, further comprising a drive motor that engages the coupling gear.

18. The sunshade system as claimed in claim 13, further comprising first and second sliders molded onto said at least one push-pull cable, fitted in at least one of the front crossbar and rear crossbar and received in the first and second guide rails, respectively, for sliding movement therein.

19. The sunshade system as claimed in claim 1, wherein the sunshade is adapted to at least partially cover a windshield of a vehicle.

20. The sunshade system as claimed in claim 19, wherein the first and second guide rails are part of a roof opener system.

21. The sunshade system as claimed in claim 1, further comprising a roller blind that is secured to the rear crossbar.

22. The sunshade system as claimed in claim 21, further comprising a coiling body, wherein the roller blind is wound on the coiling body.

23. A vehicle roof module, comprising:

- an inside headliner;
- first and second guide rails fitted to the inside headliner;
- a front crossbar and a rear crossbar that extend between the first and second guide rails and are guided in the first and second guide rails; and
- a flexible sunshade that is fastened to the front and rear crossbars, wherein the sunshade is guided between the first and second guide rails.